

# THE CONTRIBUTION OF THE TENNESSEE PEST CONTROL INDUSTRY TO THE TENNESSEE ECONOMY

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## INTRODUCTION

Estimates regarding the growth and contribution of the Tennessee pest control industry to the state economy are provided in this report. An IMPLAN-based (IMPLAN Group LLC (2022) input-output model of the 2022 Tennessee economy and the most recent published data regarding the industry's size are used in arriving at model estimates. Estimation results for the industry's total (direct and multiplier-based) impact are provided, followed by summary and conclusions.

## INPUT-OUTPUT MODEL USE

Input-output models “examine the market flow of products between industries, sales by industries to households and other final users, and industry use of factors of production (labor and capital). Such models can be very detailed, containing several hundred industries” (Hughes, 2003). An IMPLAN-based model of the Tennessee economy in 2022 was used as the starting point of our work. IMPLAN is a so-called “ready-made I-O modeling system, where a basic knowledge of personal computers is sufficient for generating models, multipliers, and impacts” (Hughes, 2003). As such, I-O models provide estimates of the economic impact of a given event or industry (as contribution analysis). In contribution analysis, the impact of a given industry, such as pest control in this case, is based on the multiplier effect of the spending and re-spending in a given economy set off by that industry.

To obtain an estimate of the contribution of the pest control industry to the Tennessee economy, estimates regarding the size of the industry must first be obtained. Reported employment data was used as the starting point for estimating the economic impact of the exterminating and pest control services industry (North American Industrial Classification System number 56171) on the state economy using fourth quarter data and annual data for 2023 as reported in the Quarterly Census of Employment and Wages (QCEW) report. Annual data indicated that covered employment was 4,582 jobs with a total payroll of \$263,136,561 (average annual pay of \$57,431) for 464 establishments. However, the number of reported establishments for the last quarter of 2023 was 481. In the IMPLAN model, the pest control industry is a major component of the services to building industry (Industry or Sector 476). Based on the 2022 model for Tennessee, the average value of output (revenue) per worker was \$111,820. This result is within the range of values reported by Winkles et al. (2024) of \$102,213 and \$116,482 reported for the Georgia pest control industry. We applied the reported 2023 employment of 4,582 to arrive at an estimated total revenue estimate (\$512,358,524) for QCEW reporting establishments.

But while accounting for most activity, QCEW does not account for establishments who do not have covered employees. To account for such proprietors, we used estimates for the number of pest control industry establishments (349) and revenue (\$18,207,000) from nonemployer statistics data provided by US Census Bureau for 2021. We converted these values into 2023 estimates by adjusting the per-establishment revenue estimates based on the Gross Domestic Price Deflator and by applying the growth rate from 2021 to 2023 (10.7 percent) in the number of establishments reporting employment (i.e., the QCEW data) to the number of nonemployer establishments. For establishments with no employees, we arrived at an estimated 386 establishments and \$21,586,040 in revenue. Adding these estimates to the QCEW-based estimates, we arrived at an estimated 867 total establishments (481 with hired workers and 386 without), 4,755 workers (including the self-employed), and an industry revenue estimate of \$531,745,440. The latter value provided our estimate of industry size used in our contribution analysis of the Tennessee pest control industry to the state economy.

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<sup>1</sup>Generated by the U.S Department of Labor, and based on establishment level reports by businesses as they make payments into the unemployment insurance pool of funds, QCEW is “the basic count of employment and wages reported by employers covering more than 95 percent of U.S. jobs, available at the county, MSA, state and national levels by industry”(2024).

## STUDY RESULTS

The economic contribution of the Tennessee pest control industry to the state economy is substantial as shown in Table 1 and Figure 1-4. Estimated direct employment of 4,755 leads to a total impact on state employment of 7,358 jobs while \$180,329,431 in direct labor income leads to a total impact on labor income of \$354,686,332. In terms of Gross State Product, \$253,066,261 in activity in the industry leads to a total impact on GSP of \$534,510,745 while direct output of \$531,745,440 leads to a total impact in output of \$1,029,122,359. Economic multipliers are total impacts divided by direct impacts for the variable in question. In terms of output, one dollar in direct spending or output by the Tennessee pest control industry leads to an impact of \$0.94 in the rest of the state economy (i.e., the output multiplier is \$1.94). One dollar of labor income in the industry had a total impact on labor income throughout the economy of \$1.97 while one dollar of gross state product in the industry had a total impact on gross state product throughout the economy of \$2.11. Finally, one direct job in the pest control industry led to 1.55 jobs (the job itself plus 0.55 jobs in the other parts of the state economy) throughout the Tennessee economy.

We compared our results to those reported by Menard (2023) regarding the contribution of agriculture to the Tennessee economy for 2021. Focusing on output, the impact of the Tennessee pest control industry, at \$1.029 billion, is comparable to that found for several important components of the agricultural economy, including beef cattle (\$0.866 billion); greenhouse, nursery and floriculture production (\$0.576 billion); cotton farming (\$0.348 billion); and poultry and egg production (\$1.058 billion).

The economic impact on specific selected sectors of the Tennessee economy are provided in Table 2. (The results across all industries are provided in Appendix A). Output impacts are concentrated in employment services (over \$34 million), other real estate (\$27.8 million), owner-occupied dwellings (over \$26.8 million), management of companies and enterprises (\$22.9 million), and full (\$10.1 million) and limited-service (\$8.8 million) restaurants. Likewise employment impacts were concentrated in employment services (313.6 jobs), other real estate (126.7 jobs), full-service restaurants (100.7 jobs), management of companies and enterprises (98.4 jobs) and limited-service restaurants (82.9 jobs). Major labor income impacts were found in management of companies and enterprises (\$15.8 million), employment services (\$14.1 million), hospitals (\$8 million) and offices of physicians (\$6.8 million). Impacts on Gross State Product were concentrated in owner-occupied dwellings (over \$22.2 million), employment services (\$19.3 million), management of companies and enterprises (over \$13.6 million), other real estate (\$11.9 million) and hospitals (\$8.4 million). Impacts in sectors such as restaurants and health care reflected spending by households supported by working in the pest control industry, while impacts in sectors such as employment services and management of companies and enterprises were due to purchases by the industry.

We compared our results to those recently reported by Winkles et al. (2024) for the pest control contribution study conducted for Georgia. Averaging the two industry contribution analysis results that they reported, (14,308 jobs, \$618.2 million labor income, \$935.4 million Gross State Product, and \$1.874 million in output), our results for Tennessee were 53.9 percent of their employment impact, 57.4 percent of their labor income impact, 57.2 percent of their Gross State Product impacts and 54.9 percent of their output impact. Given that the Tennessee economy is less than two-thirds the size of the Georgia economy and given that much of Georgia has hotter and more humid weather than Tennessee, allowing for more pest species, faster growth of pest populations and thus higher abundance of pests, the results are not surprising.

## SUMMARY AND CONCLUSIONS

Provided here are estimates regarding the economic impact of the pest control industry on the Tennessee economy through the spending that the industry engenders. The impact is substantial, including the over \$1 billion in impact in terms of output. While smaller than the impact found for the industry in Georgia, the values reported here are comparable, especially given the smaller size of the Tennessee economy and the greater need for pest control in Georgia given its warmer climate.

## REFERENCES

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<sup>2</sup>\$523.24 million versus \$805.397 million or 65% based on the Gross State Product reported in 2024 (a and b) by the US Department of Commerce for 2023

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## TABLES AND FIGURES

**Table 1. Total Impact of Exterminating and Pest Control Services on the Tennessee Economy.**

| Type       | Employment | Labor Income  | Gross State Product | Output          |
|------------|------------|---------------|---------------------|-----------------|
| direct     | 4,755      | \$180,329,431 | \$253,066,261       | \$531,745,440   |
| indirect   | 1,351      | \$95,112,970  | \$139,519,585       | \$261,455,730   |
| induced    | 1,252      | \$79,243,932  | \$141,924,899       | \$235,921,190   |
| total      | 7,358      | \$354,686,332 | \$534,510,745       | \$1,029,122,359 |
|            |            |               |                     |                 |
| Multiplier | 1.55       | \$1.97        | \$2.11              | \$1.94          |

**Table 2. Sectors with Relatively Large Impacts Due to Spending by the Tennessee Pest Control Industry**

| Industry Number and Title                                          | Output        | Total Employment | Labor Income  | Gross State Product |
|--------------------------------------------------------------------|---------------|------------------|---------------|---------------------|
| 476 Services to buildings                                          | \$531,745,440 | 4,755.4          | \$180,329,431 | \$253,066,261       |
| 472 Employment services                                            | \$34,407,032  | 313.6            | \$14,118,240  | \$19,303,485        |
| 447 Other real estate                                              | \$27,759,131  | 126.7            | \$4,288,358   | \$11,897,558        |
| 509 Full-service restaurants                                       | \$10,091,271  | 100.7            | \$3,775,365   | \$5,591,606         |
| 469 Management of companies and enterprises                        | \$22,861,035  | 98.4             | \$15,792,342  | \$13,649,725        |
| 510 Limited-service restaurants                                    | \$8,813,088   | 82.9             | \$2,597,434   | \$4,047,023         |
| 462 Management consulting services                                 | \$9,878,068   | 63.3             | \$5,659,582   | \$5,896,774         |
| 483 Offices of physicians                                          | \$9,525,521   | 55.0             | \$6,761,612   | \$6,806,930         |
| 490 Hospitals                                                      | \$13,369,263  | 53.1             | \$8,026,207   | \$8,412,923         |
| 512 Automotive repair and maintenance, except car washes           | \$5,985,185   | 49.9             | \$3,495,008   | \$4,392,752         |
| 515 Commercial-industrial machinery, equipment repair, maintenance | \$7,037,509   | 48.7             | \$4,015,445   | \$4,705,159         |
| 411 Retail - General merchandise stores                            | \$4,826,073   | 44.3             | \$1,678,432   | \$3,019,959         |
| 470 Office administrative services                                 | \$3,734,159   | 44.0             | \$3,479,871   | \$1,519,356         |
| 456 Accounting, tax preparation, bookkeeping, and payroll services | \$8,407,225   | 43.1             | \$4,518,967   | \$5,764,868         |
| 511 All other food and drinking places                             | \$3,689,826   | 41.1             | \$1,572,661   | \$2,418,740         |
| 406 Retail - Food and beverage stores                              | \$3,831,359   | 38.9             | \$1,660,389   | \$2,439,189         |
| 449 Owner-occupied dwellings                                       | \$26,826,756  | 0.0              | \$0           | \$22,229,028        |
| 413 Retail - Nonstore retailers                                    | \$8,977,859   | 37.3             | \$1,062,225   | \$5,648,762         |
| 441 Monetary authorities and depository credit intermediation      | \$12,347,217  | 30.1             | \$3,005,145   | \$7,545,353         |

Figure 1. Impact of the Tennessee Pest Control Industry on Tennessee Employment.

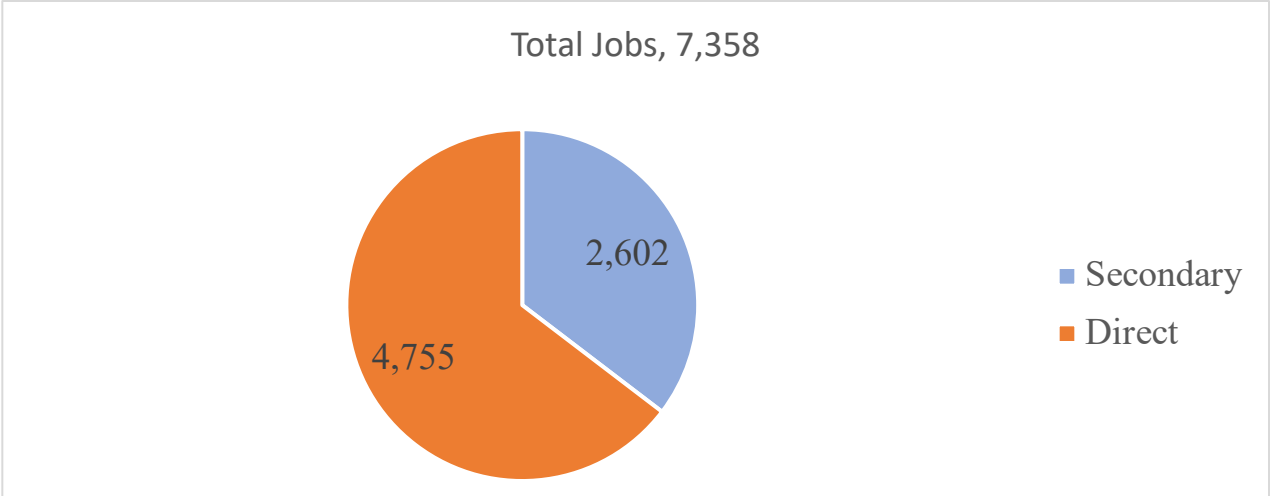


Figure 2. Impact of the Tennessee Pest Control Industry on Tennessee Labor Income.

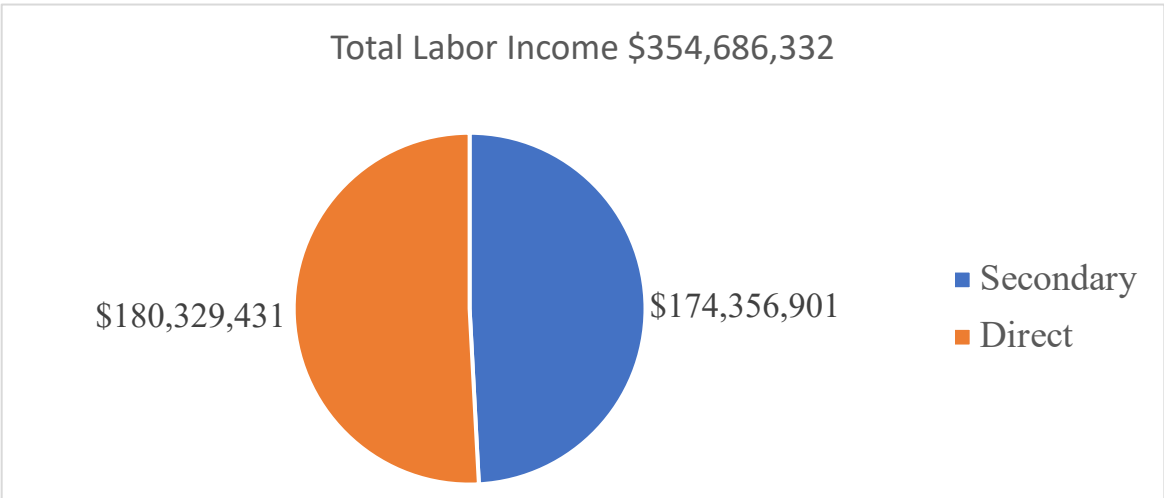
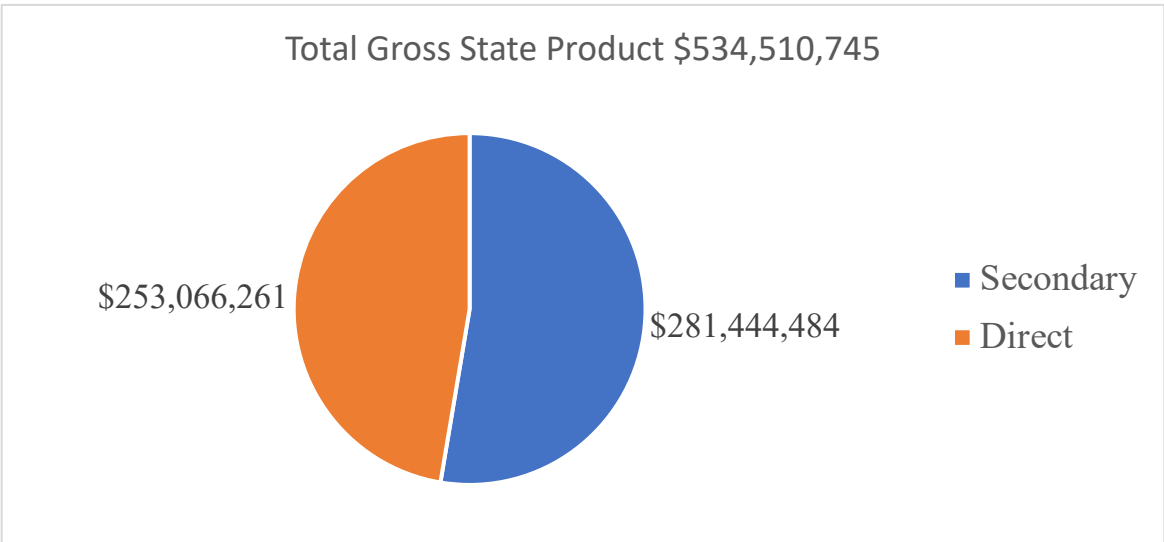
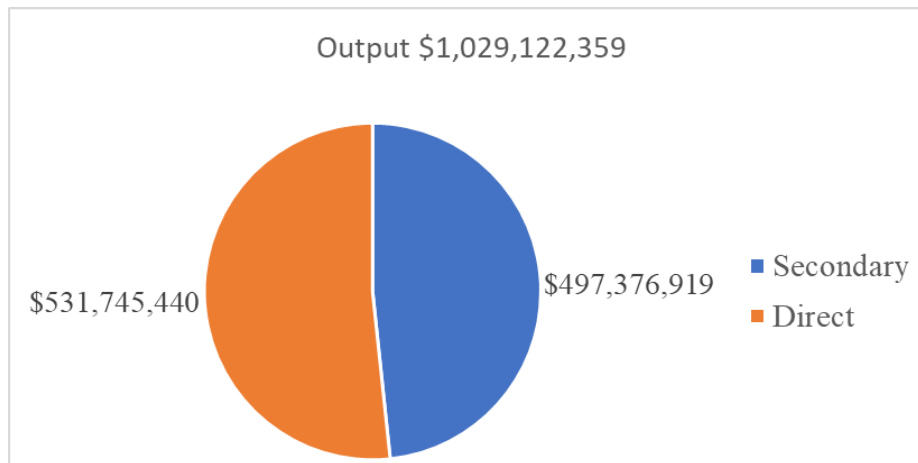


Figure 3. Impact of the Tennessee Pest Control Industry on Tennessee Gross State Product.



**Figure 4. Impact of the Tennessee Pest Control Industry on Tennessee Output.**



**Appendix Table A**

| Industry Number and Title |                                                                                            | Output      | Employment | Earned Income | Gross State Product |
|---------------------------|--------------------------------------------------------------------------------------------|-------------|------------|---------------|---------------------|
| 1                         | Oilseed farming                                                                            | \$7,352     | 0.0        | \$930         | \$4,336             |
| 2                         | Grain farming                                                                              | \$51,083    | 0.5        | \$5,277       | \$7,872             |
| 3                         | Vegetable and melon farming                                                                | \$55,947    | 0.7        | \$10,083      | \$20,944            |
| 4                         | Fruit farming                                                                              | \$3,097     | 0.1        | \$710         | \$1,455             |
| 5                         | Tree nut farming                                                                           | \$278       | 0.0        | \$61          | \$129               |
| 6                         | Greenhouse, nursery, and floriculture production                                           | \$80,481    | 1.0        | \$15,077      | \$28,842            |
| 7                         | Tobacco farming                                                                            | \$4,200     | 0.1        | \$1,032       | \$1,812             |
| 8                         | Cotton farming                                                                             | \$7,392     | 0.1        | \$1,722       | \$3,048             |
| 10                        | All other crop farming                                                                     | \$27,773    | 2.9        | \$5,699       | \$9,277             |
| 11                        | Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming | \$48,264    | 1.1        | \$4,420       | \$18,198            |
| 12                        | Dairy cattle and milk production                                                           | \$12,182    | 0.1        | \$715         | \$1,971             |
| 13                        | Poultry and egg production                                                                 | \$107,673   | 0.4        | \$3,990       | \$12,740            |
| 14                        | Animal production, except cattle and poultry and eggs                                      | \$62,266    | 1.6        | \$13,334      | \$46,739            |
| 15                        | Forestry, forest products, and timber tract production                                     | \$3,617     | 0.0        | \$2,418       | \$2,696             |
| 16                        | Commercial logging                                                                         | \$26,213    | 0.2        | \$15,645      | \$16,527            |
| 17                        | Commercial fishing                                                                         | \$1,179     | 0.2        | -\$1,065      | \$1,062             |
| 18                        | Commercial hunting and trapping                                                            | \$2,672     | 0.1        | \$88          | \$1,028             |
| 19                        | Support activities for agriculture and forestry                                            | \$20,581    | 0.6        | \$18,121      | \$17,656            |
| 20                        | Oil and gas extraction                                                                     | \$386,285   | 0.5        | \$2,301       | \$4,862             |
| 21                        | Coal mining                                                                                | \$160       | 0.0        | \$31          | \$86                |
| 22                        | Copper, nickel, lead, and zinc mining                                                      | \$1,057,217 | 1.8        | \$121,844     | \$526,135           |
| 24                        | Gold ore mining                                                                            | \$1,261     | 0.0        | \$304         | \$768               |
| 25                        | Silver ore mining                                                                          | \$75        | 0.0        | \$24          | \$44                |
| 28                        | Stone mining and quarrying                                                                 | \$72,945    | 0.1        | \$9,465       | \$45,416            |
| 29                        | Sand and gravel mining                                                                     | \$25,122    | 0.1        | \$8,890       | \$16,054            |
| 30                        | Other clay, ceramic, refractory minerals mining                                            | \$2,009     | 0.0        | \$489         | \$996               |
| 31                        | Potash, soda, and borate mineral mining                                                    | \$486       | 0.0        | \$198         | \$281               |
| 32                        | Phosphate rock mining                                                                      | \$162       | 0.0        | \$53          | \$96                |
| 33                        | Other chemical and fertilizer mineral mining                                               | \$445       | 0.0        | \$177         | \$261               |

**Appendix Table A (Continues on Next Page)**

**Appendix Table A (CONTINUED)**

| Industry Number and Title |                                                                                | Output      | Employment | Earned Income | Gross State Product |
|---------------------------|--------------------------------------------------------------------------------|-------------|------------|---------------|---------------------|
| 34                        | Other nonmetallic minerals                                                     | \$410       | 0.0        | \$145         | \$244               |
| 35                        | Drilling oil and gas wells                                                     | \$20        | 0.0        | \$2           | \$5                 |
| 36                        | Support activities for oil and gas operations                                  | \$79        | 0.0        | \$13          | \$20                |
| 37                        | Metal mining services                                                          | \$9,475     | 0.0        | \$317         | \$378               |
| 38                        | Other nonmetallic minerals services                                            | \$227       | 0.0        | \$13          | \$17                |
| 39                        | Electric power generation - Hydroelectric                                      | \$12,169    | 0.0        | \$2,047       | \$7,905             |
| 40                        | Electric power generation - Fossil fuel                                        | \$64,035    | 0.0        | \$6,616       | \$40,564            |
| 42                        | Electric power generation - Solar                                              | \$21,623    | 0.0        | \$4,293       | \$15,588            |
| 43                        | Electric power generation - Wind                                               | \$4,349     | 0.0        | \$223         | \$3,344             |
| 44                        | Electric power generation - Geothermal                                         | \$3,974     | 0.0        | \$985         | \$2,925             |
| 45                        | Electric power generation - Biomass                                            | \$47,389    | 0.0        | \$4,095       | \$22,877            |
| 46                        | Electric power generation - All other                                          | \$7,487     | 0.0        | \$5,405       | \$4,656             |
| 47                        | Electric power transmission and distribution                                   | \$2,896,554 | 1.5        | \$239,267     | \$1,590,817         |
| 48                        | Natural gas distribution                                                       | \$848,162   | 0.5        | \$79,029      | \$522,362           |
| 49                        | Water, sewage and other systems                                                | \$256,442   | 0.4        | \$53,664      | \$176,466           |
| 60                        | Maintenance and repair construction of nonresidential structures               | \$2,422,181 | 10.1       | \$758,520     | \$907,424           |
| 61                        | Maintenance and repair construction of residential structures                  | \$1,254,495 | 5.9        | \$414,660     | \$519,318           |
| 62                        | Maintenance and repair construction of highways, streets, bridges, and tunnels | \$922       | 0.0        | \$285         | \$354               |
| 63                        | Dog and cat food manufacturing                                                 | \$35,753    | 0.0        | \$3,351       | \$10,466            |
| 64                        | Other animal food manufacturing                                                | \$46,772    | 0.0        | \$3,193       | \$7,360             |
| 65                        | Flour milling                                                                  | \$39,022    | 0.0        | \$3,133       | \$7,961             |
| 66                        | Rice milling                                                                   | \$13,734    | 0.0        | \$1,814       | \$3,902             |
| 68                        | Wet corn milling                                                               | \$37,619    | 0.0        | \$2,703       | \$7,237             |
| 69                        | Soybean and other oilseed processing                                           | \$34,690    | 0.0        | \$690         | \$5,521             |
| 70                        | Fats and oils refining and blending                                            | \$6,412     | 0.0        | \$242         | \$831               |
| 71                        | Breakfast cereal manufacturing                                                 | \$23,842    | 0.0        | \$2,975       | \$9,981             |
| 73                        | Sugar cane mills and refining                                                  | \$2,752     | 0.0        | \$195         | \$767               |
| 74                        | Nonchocolate confectionery manufacturing                                       | \$23,249    | 0.0        | \$4,199       | \$6,679             |
| 75                        | Chocolate and confectionery manufacturing from cacao beans                     | \$1,273     | 0.0        | \$263         | \$442               |
| 76                        | Confectionery manufacturing from purchased chocolate                           | \$22,195    | 0.0        | \$4,283       | \$7,488             |
| 77                        | Frozen fruits, juices and vegetables manufacturing                             | \$105,582   | 0.2        | \$13,735      | \$37,436            |
| 78                        | Frozen specialties manufacturing                                               | \$64,974    | 0.2        | \$12,709      | \$20,105            |
| 79                        | Canned fruits and vegetables manufacturing                                     | \$20,303    | 0.0        | \$3,759       | \$8,960             |
| 80                        | Canned specialties                                                             | \$4,975     | 0.0        | \$435         | \$1,295             |
| 81                        | Dehydrated food products manufacturing                                         | \$132       | 0.0        | \$15          | \$34                |
| 82                        | Cheese manufacturing                                                           | \$32,008    | 0.0        | \$2,280       | \$3,836             |
| 83                        | Dry, condensed, and evaporated dairy product manufacturing                     | \$44,134    | 0.0        | \$3,092       | \$10,148            |
| 84                        | Fluid milk manufacturing                                                       | \$134,414   | 0.2        | \$15,282      | \$30,723            |
| 85                        | Creamery butter manufacturing                                                  | \$24,601    | 0.0        | \$1,151       | \$5,328             |
| 86                        | Ice cream and frozen dessert manufacturing                                     | \$4,519     | 0.0        | \$558         | \$946               |
| 87                        | Frozen cakes and other pastries manufacturing                                  | \$49,918    | 0.3        | \$19,339      | \$33,390            |
| 88                        | Poultry processing                                                             | \$364,301   | 1.0        | \$63,898      | \$84,595            |
| 89                        | Animal, except poultry, slaughtering                                           | \$93,544    | 0.1        | \$9,661       | \$12,489            |
| 90                        | Meat processed from carcasses                                                  | \$122,863   | 0.2        | \$18,653      | \$19,119            |

**Appendix Table A (Continues on Next Page)**

**Appendix Table A (CONTINUED)**

| Industry Number and Title |                                                        | Output    | Employment | Earned Income | Gross State Product |
|---------------------------|--------------------------------------------------------|-----------|------------|---------------|---------------------|
| 91                        | Rendering and meat byproduct processing                | \$3,663   | 0.0        | \$595         | \$690               |
| 92                        | Seafood product preparation and packaging              | \$1,536   | 0.0        | \$208         | \$383               |
| 93                        | Bread and bakery product, except frozen, manufacturing | \$174,892 | 0.9        | \$48,631      | \$81,427            |
| 94                        | Cookie and cracker manufacturing                       | \$100,407 | 0.2        | \$22,427      | \$36,938            |
| 95                        | Dry pasta, mixes, and dough manufacturing              | \$35,706  | 0.1        | \$4,095       | \$12,707            |
| 96                        | Tortilla manufacturing                                 | \$16,932  | 0.1        | \$4,037       | \$5,984             |
| 97                        | Roasted nuts and peanut butter manufacturing           | \$16,840  | 0.0        | \$2,316       | \$2,864             |
| 98                        | Other snack food manufacturing                         | \$153,354 | 0.2        | \$17,682      | \$60,714            |
| 99                        | Coffee and tea manufacturing                           | \$42,305  | 0.1        | \$4,600       | \$10,851            |
| 100                       | Flavoring syrup and concentrate manufacturing          | \$600     | 0.0        | \$38          | \$376               |
| 101                       | Mayonnaise, dressing, and sauce manufacturing          | \$9,220   | 0.0        | \$1,098       | \$2,620             |
| 102                       | Spice and extract manufacturing                        | \$1,653   | 0.0        | \$202         | \$399               |
| 103                       | All other food manufacturing                           | \$23,732  | 0.0        | \$4,244       | \$6,901             |
| 104                       | Bottled and canned soft drinks & water                 | \$460,200 | 0.7        | \$52,690      | \$124,229           |
| 105                       | Manufactured ice                                       | \$9,759   | 0.1        | \$2,968       | \$2,662             |
| 106                       | Breweries                                              | \$108,047 | 0.3        | \$13,205      | \$34,270            |
| 107                       | Wineries                                               | \$63,449  | 0.2        | \$7,457       | \$18,185            |
| 108                       | Distilleries                                           | \$33,299  | 0.0        | \$3,016       | \$15,018            |
| 109                       | Tobacco product manufacturing                          | \$495,900 | 0.1        | \$12,727      | \$312,560           |
| 110                       | Fiber, yarn, and thread mills                          | \$2,899   | 0.0        | \$542         | \$612               |
| 111                       | Broadwoven fabric mills                                | \$183     | 0.0        | \$40          | \$47                |
| 112                       | Narrow fabric mills and schiffli machine embroidery    | \$86      | 0.0        | \$24          | \$26                |
| 113                       | Nonwoven fabric mills                                  | \$5,045   | 0.0        | \$793         | \$1,026             |
| 114                       | Knit fabric mills                                      | \$363     | 0.0        | \$80          | \$93                |
| 115                       | Textile and fabric finishing mills                     | \$1,257   | 0.0        | \$235         | \$271               |
| 116                       | Fabric coating mills                                   | \$1,201   | 0.0        | \$248         | \$281               |
| 117                       | Carpet and rug mills                                   | \$4,650   | 0.0        | \$778         | \$932               |
| 118                       | Curtain and linen mills                                | \$449     | 0.0        | \$90          | \$104               |
| 119                       | Textile bag and canvas mills                           | \$3,764   | 0.0        | \$965         | \$1,137             |
| 120                       | Rope, cordage, twine, tire cord and tire fabric mills  | \$2,574   | 0.0        | \$621         | \$789               |
| 121                       | Other textile product mills                            | \$9,090   | 0.1        | \$2,703       | \$2,989             |
| 122                       | Hosiery and sock mills                                 | \$1,231   | 0.0        | \$529         | \$547               |
| 123                       | Other apparel knitting mills                           | \$4,928   | 0.0        | \$1,970       | \$2,073             |
| 124                       | Cut and sew apparel contractors                        | \$39,143  | 0.5        | \$19,904      | \$20,158            |
| 125                       | Men's and boys' cut and sew apparel manufacturing      | \$15,513  | 0.1        | \$7,003       | \$6,681             |
| 126                       | Women's and girls' cut and sew apparel manufacturing   | \$8,589   | 0.0        | \$2,601       | \$1,926             |
| 127                       | Other cut and sew apparel manufacturing                | \$3,111   | 0.0        | \$1,159       | \$1,072             |
| 128                       | Apparel accessories and other apparel manufacturing    | \$822     | 0.0        | \$335         | \$348               |
| 129                       | Leather and hide tanning and finishing                 | \$111     | 0.0        | \$17          | \$15                |
| 130                       | Footwear manufacturing                                 | \$307     | 0.0        | \$71          | \$72                |
| 131                       | Other leather and allied product manufacturing         | \$237     | 0.0        | \$70          | \$70                |
| 132                       | Sawmills                                               | \$88,420  | 0.2        | \$10,002      | \$19,193            |
| 133                       | Wood preservation                                      | \$4,033   | 0.0        | \$392         | \$1,284             |
| 134                       | Veneer and plywood manufacturing                       | \$2,713   | 0.0        | \$449         | \$726               |

**Appendix Table A (Continues on Next Page)**

| Industry Number and Title |                                                             | Output      | Employment | Earned Income | Gross State Product |
|---------------------------|-------------------------------------------------------------|-------------|------------|---------------|---------------------|
| 135                       | Engineered wood member and truss manufacturing              | \$24,537    | 0.1        | \$4,254       | \$8,131             |
| 136                       | Reconstituted wood product manufacturing                    | \$5,213     | 0.0        | \$576         | \$2,023             |
| 137                       | Wood windows and door manufacturing                         | \$150,685   | 0.5        | \$36,282      | \$55,771            |
| 138                       | Cut stock, resawing lumber, and planing                     | \$16,546    | 0.0        | \$2,704       | \$5,927             |
| 139                       | Other millwork, including flooring                          | \$64,421    | 0.2        | \$11,351      | \$21,785            |
| 140                       | Wood container and pallet manufacturing                     | \$106,377   | 0.4        | \$23,987      | \$38,278            |
| 141                       | Manufactured home (mobile home) manufacturing               | \$1,011     | 0.0        | \$269         | \$432               |
| 142                       | Prefabricated wood building manufacturing                   | \$13,671    | 0.0        | \$2,336       | \$5,239             |
| 143                       | All other miscellaneous wood product manufacturing          | \$65,843    | 0.2        | \$13,948      | \$23,078            |
| 144                       | Pulp mills                                                  | \$266       | 0.0        | \$43          | \$103               |
| 145                       | Paper mills                                                 | \$966,266   | 0.8        | \$120,245     | \$467,878           |
| 146                       | Paperboard mills                                            | \$121,614   | 0.1        | \$15,231      | \$51,973            |
| 147                       | Paperboard container manufacturing                          | \$1,648,195 | 2.6        | \$232,236     | \$493,559           |
| 148                       | Paper bag and coated and treated paper manufacturing        | \$122,291   | 0.2        | \$19,477      | \$45,249            |
| 149                       | Stationery product manufacturing                            | \$51,414    | 0.1        | \$11,102      | \$17,881            |
| 150                       | Sanitary paper product manufacturing                        | \$366,804   | 0.3        | \$33,302      | \$185,148           |
| 151                       | All other converted paper product manufacturing             | \$36,271    | 0.1        | \$4,982       | \$12,671            |
| 152                       | Printing                                                    | \$1,135,472 | 5.6        | \$344,639     | \$566,338           |
| 153                       | Support activities for printing                             | \$14,295    | 0.1        | \$5,871       | \$9,748             |
| 154                       | Petroleum refineries                                        | \$3,356,632 | 0.3        | \$65,560      | \$682,363           |
| 155                       | Asphalt paving mixture and block manufacturing              | \$26,837    | 0.0        | \$3,208       | \$4,670             |
| 156                       | Asphalt shingle and coating materials manufacturing         | \$57,056    | 0.0        | \$5,392       | \$20,625            |
| 157                       | Petroleum lubricating oil and grease manufacturing          | \$41,939    | 0.0        | \$4,547       | \$14,114            |
| 159                       | Petrochemical manufacturing                                 | \$38,354    | 0.0        | \$627         | \$8,957             |
| 160                       | Industrial gas manufacturing                                | \$118,177   | 0.1        | \$11,835      | \$41,926            |
| 161                       | Synthetic dye and pigment manufacturing                     | \$8,154     | 0.0        | \$1,384       | \$3,294             |
| 162                       | Other basic inorganic chemical manufacturing                | \$399,921   | 0.4        | \$60,194      | \$159,186           |
| 163                       | Other basic organic chemical manufacturing                  | \$51,054    | 0.0        | \$3,119       | \$8,881             |
| 164                       | Plastics material and resin manufacturing                   | \$71,055    | 0.0        | \$4,675       | \$9,795             |
| 165                       | Synthetic rubber manufacturing                              | \$2,558     | 0.0        | \$411         | \$621               |
| 166                       | Artificial and synthetic fibers and filaments manufacturing | \$19,893    | 0.0        | \$3,937       | \$5,742             |
| 167                       | Nitrogenous fertilizer manufacturing                        | \$917       | 0.0        | \$56          | \$256               |
| 168                       | Phosphatic fertilizer manufacturing                         | \$294       | 0.0        | \$26          | \$89                |
| 169                       | Fertilizer mixing                                           | \$199       | 0.0        | \$36          | \$90                |
| 170                       | Pesticide and other agricultural chemical manufacturing     | \$79,825    | 0.0        | \$9,023       | \$34,278            |
| 171                       | Medicinal and botanical manufacturing                       | \$1,190     | 0.0        | \$167         | \$381               |
| 172                       | Pharmaceutical preparation manufacturing                    | \$26,548    | 0.0        | \$3,401       | \$12,443            |
| 173                       | In-vitro diagnostic substance manufacturing                 | \$60        | 0.0        | \$15          | \$27                |
| 174                       | Biological product (except diagnostic) manufacturing        | \$232       | 0.0        | \$32          | \$122               |
| 175                       | Paint and coating manufacturing                             | \$41,994    | 0.0        | \$5,475       | \$13,605            |
| 176                       | Adhesive manufacturing                                      | \$56,241    | 0.1        | \$9,085       | \$18,192            |
| 177                       | Soap and other detergent manufacturing                      | \$968,904   | 0.9        | \$69,459      | \$257,891           |
| 178                       | Polish and other sanitation good manufacturing              | \$270,982   | 0.5        | \$46,746      | \$101,552           |
| 179                       | Surface active agent manufacturing                          | \$1,205     | 0.0        | \$100         | \$470               |
| 180                       | Toilet preparation manufacturing                            | \$122,507   | 0.1        | \$11,676      | \$50,982            |
| 181                       | Printing ink manufacturing                                  | \$1,332     | 0.0        | \$313         | \$362               |

**Appendix Table A (CONTINUED)**

| Industry Number and Title |                                                                             | Output    | Employment | Earned Income | Gross State Product |
|---------------------------|-----------------------------------------------------------------------------|-----------|------------|---------------|---------------------|
| 182                       | Explosives manufacturing                                                    | \$8,207   | 0.0        | \$2,053       | \$2,479             |
| 183                       | Custom compounding of purchased resins                                      | \$255,377 | 0.4        | \$32,935      | \$69,639            |
| 184                       | Photographic film and chemical manufacturing                                | \$5,074   | 0.0        | \$422         | \$1,058             |
| 185                       | Other miscellaneous chemical product manufacturing                          | \$90,941  | 0.1        | \$16,301      | \$31,788            |
| 186                       | Plastics packaging materials and unlaminated film and sheet manufacturing   | \$54,295  | 0.1        | \$9,306       | \$14,523            |
| 187                       | Unlaminated plastics profile shape manufacturing                            | \$20,784  | 0.0        | \$2,961       | \$6,231             |
| 188                       | Plastics pipe and pipe fitting manufacturing                                | \$126,683 | 0.2        | \$13,573      | \$36,414            |
| 189                       | Laminated plastics plate, sheet (except packaging), and shape manufacturing | \$8,495   | 0.0        | \$1,780       | \$2,919             |
| 190                       | Polystyrene foam product manufacturing                                      | \$90,351  | 0.2        | \$12,615      | \$21,498            |
| 191                       | Urethane and other foam product (except polystyrene) manufacturing          | \$71,486  | 0.2        | \$9,302       | \$15,792            |
| 192                       | Plastics bottle manufacturing                                               | \$33,083  | 0.1        | \$4,699       | \$7,156             |
| 193                       | Other plastics product manufacturing                                        | \$302,616 | 0.9        | \$59,299      | \$86,311            |
| 194                       | Tire manufacturing                                                          | \$340,857 | 0.8        | \$73,638      | \$89,815            |
| 195                       | Rubber and plastics hoses and belting manufacturing                         | \$8,454   | 0.0        | \$1,706       | \$2,555             |
| 196                       | Other rubber product manufacturing                                          | \$81,476  | 0.3        | \$17,623      | \$22,198            |
| 197                       | Pottery, ceramics, and plumbing fixture manufacturing                       | \$8,323   | 0.0        | \$2,470       | \$3,537             |
| 198                       | Brick, tile, and other structural clay product manufacturing                | \$26,785  | 0.1        | \$6,973       | \$11,166            |
| 199                       | Flat glass manufacturing                                                    | \$251,299 | 0.6        | \$59,293      | \$106,935           |
| 200                       | Other pressed and blown glass and glassware manufacturing                   | \$9,691   | 0.0        | \$2,482       | \$3,742             |
| 201                       | Glass container manufacturing                                               | \$198     | 0.0        | \$52          | \$76                |
| 202                       | Glass product manufacturing made of purchased glass                         | \$82,980  | 0.3        | \$17,985      | \$30,158            |
| 203                       | Cement manufacturing                                                        | \$23,337  | 0.0        | \$4,180       | \$8,778             |
| 204                       | Ready-mix concrete manufacturing                                            | \$175,524 | 0.4        | \$34,228      | \$54,029            |
| 205                       | Concrete block and brick manufacturing                                      | \$28,536  | 0.1        | \$6,607       | \$11,228            |
| 206                       | Concrete pipe manufacturing                                                 | \$6,370   | 0.0        | \$1,348       | \$2,218             |
| 207                       | Other concrete product manufacturing                                        | \$73,611  | 0.2        | \$21,412      | \$31,094            |
| 208                       | Lime manufacturing                                                          | \$12,577  | 0.0        | \$2,695       | \$5,581             |
| 209                       | Gypsum product manufacturing                                                | \$46,392  | 0.1        | \$8,125       | \$20,650            |
| 210                       | Abrasive product manufacturing                                              | \$1,306   | 0.0        | \$332         | \$654               |
| 211                       | Cut stone and stone product manufacturing                                   | \$39,121  | 0.2        | \$13,363      | \$17,081            |
| 212                       | Ground or treated mineral and earth manufacturing                           | \$12,412  | 0.0        | \$2,535       | \$5,475             |
| 213                       | Mineral wool manufacturing                                                  | \$18,629  | 0.0        | \$3,114       | \$7,663             |
| 214                       | Miscellaneous nonmetallic mineral products manufacturing                    | \$1,434   | 0.0        | \$309         | \$685               |
| 215                       | Iron and steel mills and ferroalloy manufacturing                           | \$51,820  | 0.0        | \$2,810       | \$6,392             |
| 216                       | Iron, steel pipe and tube manufacturing from purchased steel                | \$8,541   | 0.0        | \$846         | \$1,741             |
| 217                       | Rolled steel shape manufacturing                                            | \$21,517  | 0.0        | \$1,549       | \$4,791             |
| 218                       | Steel wire drawing                                                          | \$3,642   | 0.0        | \$500         | \$959               |
| 219                       | Alumina refining and primary aluminum production                            | \$2,104   | 0.0        | \$324         | \$501               |
| 220                       | Secondary smelting and alloying of aluminum                                 | \$18,186  | 0.0        | \$1,032       | \$2,048             |
| 221                       | Aluminum sheet, plate, and foil manufacturing                               | \$5,381   | 0.0        | \$639         | \$1,237             |
| 222                       | Other aluminum rolling, drawing and extruding                               | \$2,662   | 0.0        | \$365         | \$529               |
| 223                       | Nonferrous metal (exc aluminum) smelting and refining                       | \$802     | 0.0        | \$35          | \$221               |
| 224                       | Copper rolling, drawing, extruding and alloying                             | \$2,211   | 0.0        | \$104         | \$214               |

**Appendix Table A (Continues on Next Page)**

**Appendix Table A (CONTINUED)**

| Industry Number and Title |                                                            | Output    | Employment | Earned Income | Gross State Product |
|---------------------------|------------------------------------------------------------|-----------|------------|---------------|---------------------|
| 225                       | Nonferrous metal, except copper and aluminum, shaping      | \$2,559   | 0.0        | \$451         | \$547               |
| 226                       | Secondary processing of other nonferrous metals            | \$490     | 0.0        | \$51          | \$102               |
| 227                       | Ferrous metal foundries                                    | \$9,307   | 0.0        | \$2,231       | \$3,851             |
| 228                       | Nonferrous metal foundries                                 | \$8,744   | 0.0        | \$2,775       | \$3,700             |
| 229                       | Custom roll forming                                        | \$1,534   | 0.0        | \$253         | \$330               |
| 230                       | Crown and closure manufacturing and metal stamping         | \$18,239  | 0.1        | \$4,290       | \$5,160             |
| 231                       | Iron and steel forging                                     | \$12,883  | 0.0        | \$2,569       | \$3,224             |
| 232                       | Nonferrous forging                                         | \$1,076   | 0.0        | \$202         | \$245               |
| 233                       | Cutlery, utensil, pot, and pan manufacturing               | \$9,025   | 0.0        | \$1,304       | \$2,502             |
| 234                       | Handtool manufacturing                                     | \$3,640   | 0.0        | \$954         | \$1,336             |
| 235                       | Prefabricated metal buildings and components manufacturing | \$7,865   | 0.0        | \$1,655       | \$2,235             |
| 236                       | Fabricated structural metal manufacturing                  | \$39,128  | 0.1        | \$7,731       | \$10,339            |
| 237                       | Plate work manufacturing                                   | \$14,277  | 0.0        | \$5,070       | \$5,553             |
| 238                       | Metal window and door manufacturing                        | \$26,904  | 0.1        | \$6,239       | \$7,919             |
| 239                       | Sheet metal work manufacturing                             | \$19,079  | 0.1        | \$5,213       | \$6,537             |
| 240                       | Ornamental and architectural metal work manufacturing      | \$12,452  | 0.1        | \$3,403       | \$3,960             |
| 241                       | Power boiler and heat exchanger manufacturing              | \$1,009   | 0.0        | \$271         | \$341               |
| 242                       | Metal tank (heavy gauge) manufacturing                     | \$1,786   | 0.0        | \$446         | \$522               |
| 243                       | Metal cans manufacturing                                   | \$6,030   | 0.0        | \$670         | \$1,071             |
| 244                       | Metal barrels, drums and pails manufacturing               | \$1,157   | 0.0        | \$180         | \$221               |
| 245                       | Hardware manufacturing                                     | \$6,439   | 0.0        | \$1,110       | \$1,461             |
| 246                       | Spring and wire product manufacturing                      | \$87,250  | 0.3        | \$19,243      | \$23,450            |
| 247                       | Machine shops                                              | \$133,197 | 0.7        | \$51,173      | \$57,782            |
| 248                       | Turned product and screw, nut, and bolt manufacturing      | \$23,982  | 0.1        | \$7,379       | \$8,753             |
| 249                       | Metal heat treating                                        | \$5,940   | 0.0        | \$1,734       | \$2,096             |
| 250                       | Metal coating and nonprecious engraving                    | \$24,926  | 0.1        | \$4,676       | \$7,081             |
| 251                       | Electroplating, anodizing, and coloring metal              | \$9,220   | 0.1        | \$3,525       | \$3,756             |
| 252                       | Valve and fittings, other than plumbing, manufacturing     | \$34,115  | 0.1        | \$8,037       | \$10,697            |
| 253                       | Plumbing fixture fitting and trim manufacturing            | \$38,908  | 0.1        | \$4,164       | \$8,081             |
| 254                       | Ball and roller bearing manufacturing                      | \$6,943   | 0.0        | \$1,489       | \$2,086             |
| 255                       | Small arms ammunition manufacturing                        | \$6,968   | 0.0        | \$1,375       | \$2,505             |
| 256                       | Ammunition, except for small arms, manufacturing           | \$8,323   | 0.0        | \$4,078       | \$4,416             |
| 257                       | Small arms, ordnance, and accessories manufacturing        | \$4,076   | 0.0        | \$808         | \$1,421             |
| 258                       | Fabricated pipe and pipe fitting manufacturing             | \$3,834   | 0.0        | \$920         | \$1,101             |
| 259                       | Other fabricated metal manufacturing                       | \$60,795  | 0.2        | \$14,983      | \$18,489            |
| 260                       | Farm machinery and equipment manufacturing                 | \$874     | 0.0        | \$98          | \$202               |
| 261                       | Lawn and garden equipment manufacturing                    | \$7,032   | 0.0        | \$754         | \$1,379             |
| 262                       | Construction machinery manufacturing                       | \$3,574   | 0.0        | \$420         | \$1,047             |
| 263                       | Mining machinery and equipment manufacturing               | \$347     | 0.0        | \$74          | \$128               |
| 264                       | Oil and gas field machinery and equipment manufacturing    | \$17      | 0.0        | \$3           | \$4                 |
| 265                       | Semiconductor machinery manufacturing                      | \$25      | 0.0        | \$4           | \$6                 |
| 266                       | Food product machinery manufacturing                       | \$17      | 0.0        | \$5           | \$6                 |
| 267                       | Sawmill, woodworking, and paper machinery                  | \$52      | 0.0        | \$15          | \$18                |
| 268                       | Printing machinery and equipment manufacturing             | \$62      | 0.0        | \$16          | \$19                |

**Appendix Table A (Continues on Next Page)**

**Appendix Table A (CONTINUED)**

|     | Industry Number and Title                                                     | Output    | Employment | Earned Income | Gross State Product |
|-----|-------------------------------------------------------------------------------|-----------|------------|---------------|---------------------|
| 269 | All other industrial machinery manufacturing                                  | \$1,153   | 0.0        | \$300         | \$428               |
| 270 | Optical instrument and lens manufacturing                                     | \$26      | 0.0        | \$6           | \$10                |
| 271 | Photographic and photocopying equipment manufacturing                         | \$120     | 0.0        | \$27          | \$37                |
| 272 | Other commercial service industry machinery manufacturing                     | \$8,021   | 0.0        | \$1,345       | \$2,660             |
| 273 | Air purification and ventilation equipment manufacturing                      | \$9,333   | 0.0        | \$2,546       | \$3,650             |
| 274 | Heating equipment (except warm air furnaces) manufacturing                    | \$197,771 | 0.5        | \$41,385      | \$75,821            |
| 275 | Air conditioning, refrigeration, and warm air heating equipment manufacturing | \$436,696 | 0.9        | \$75,134      | \$153,592           |
| 276 | Industrial mold manufacturing                                                 | \$603     | 0.0        | \$201         | \$266               |
| 277 | Special tool, die, jig, and fixture manufacturing                             | \$1,907   | 0.0        | \$655         | \$1,003             |
| 278 | Cutting tool and machine tool accessory manufacturing                         | \$1,643   | 0.0        | \$590         | \$739               |
| 279 | Machine tool manufacturing                                                    | \$811     | 0.0        | \$193         | \$277               |
| 280 | Rolling mill and other metalworking machinery manufacturing                   | \$17,128  | 0.0        | \$5,041       | \$7,611             |
| 281 | Turbine and turbine generator set units manufacturing                         | \$80      | 0.0        | \$19          | \$22                |
| 282 | Speed changer, industrial high-speed drive, and gear manufacturing            | \$447     | 0.0        | \$102         | \$170               |
| 283 | Mechanical power transmission equipment manufacturing                         | \$991     | 0.0        | \$232         | \$397               |
| 284 | Other engine equipment manufacturing                                          | \$314     | 0.0        | \$26          | \$66                |
| 285 | Pump and pumping equipment manufacturing                                      | \$253     | 0.0        | \$45          | \$92                |
| 286 | Air and gas compressor manufacturing                                          | \$206     | 0.0        | \$38          | \$58                |
| 287 | Elevator and moving stairway manufacturing                                    | \$3,370   | 0.0        | \$718         | \$1,040             |
| 288 | Conveyor and conveying equipment manufacturing                                | \$104     | 0.0        | \$30          | \$35                |
| 289 | Overhead cranes, hoists, and monorail systems manufacturing                   | \$141     | 0.0        | \$20          | \$44                |
| 290 | Industrial truck, trailer, and stacker manufacturing                          | \$183     | 0.0        | \$29          | \$59                |
| 291 | Power-driven handtool manufacturing                                           | \$1,815   | 0.0        | \$219         | \$731               |
| 292 | Welding and soldering equipment manufacturing                                 | \$423     | 0.0        | \$74          | \$137               |
| 293 | Packaging machinery manufacturing                                             | \$88      | 0.0        | \$19          | \$34                |
| 294 | Industrial process furnace and oven manufacturing                             | \$32      | 0.0        | \$10          | \$13                |
| 295 | Fluid power cylinder and actuator manufacturing                               | \$230     | 0.0        | \$54          | \$83                |
| 296 | Fluid power pump and motor manufacturing                                      | \$1,045   | 0.0        | \$169         | \$340               |
| 297 | Scales, balances, and miscellaneous general purpose machinery manufacturing   | \$711     | 0.0        | \$188         | \$256               |
| 298 | Electronic computer manufacturing                                             | \$981     | 0.0        | \$90          | \$124               |
| 299 | Computer storage device manufacturing                                         | \$681     | 0.0        | \$120         | \$167               |
| 300 | Computer terminals and other computer peripheral equipment manufacturing      | \$766     | 0.0        | \$187         | \$241               |
| 301 | Telephone apparatus manufacturing                                             | \$31      | 0.0        | \$8           | \$12                |
| 302 | Broadcast and wireless communications equipment manufacturing                 | \$289     | 0.0        | \$60          | \$77                |
| 303 | Other communications equipment manufacturing                                  | \$390     | 0.0        | \$90          | \$130               |
| 304 | Audio and video equipment manufacturing                                       | \$1,722   | 0.0        | \$232         | \$351               |
| 305 | Printed circuit assembly (electronic assembly) manufacturing                  | \$1,750   | 0.0        | \$374         | \$542               |
| 306 | Bare printed circuit board manufacturing                                      | \$401     | 0.0        | \$123         | \$144               |
| 307 | Semiconductor and related device manufacturing                                | \$346     | 0.0        | \$37          | \$54                |
| 308 | Capacitor, resistor, coil, transformer, and other inductor manufacturing      | \$276     | 0.0        | \$57          | \$70                |
| 309 | Electronic connector manufacturing                                            | \$102     | 0.0        | \$17          | \$22                |
| 310 | Other electronic component manufacturing                                      | \$212     | 0.0        | \$56          | \$66                |

**Appendix Table A (Continues on Next Page)**

**Appendix Table A (CONTINUED)**

| Industry Number and Title |                                                                          | Output      | Employment | Earned Income | Gross State Product |
|---------------------------|--------------------------------------------------------------------------|-------------|------------|---------------|---------------------|
| 311                       | Electromedical and electrotherapeutic apparatus manufacturing            | \$677       | 0.0        | \$175         | \$250               |
| 312                       | Search, detection, and navigation instruments manufacturing              | \$2         | 0.0        | \$1           | \$1                 |
| 313                       | Automatic environmental control manufacturing                            | \$1,225     | 0.0        | \$334         | \$414               |
| 314                       | Industrial process variable instruments manufacturing                    | \$280       | 0.0        | \$80          | \$107               |
| 315                       | Totalizing fluid meter and counting device manufacturing                 | \$37        | 0.0        | \$9           | \$16                |
| 316                       | Electricity and signal testing instruments manufacturing                 | \$18        | 0.0        | \$4           | \$5                 |
| 317                       | Analytical laboratory instrument manufacturing                           | \$64        | 0.0        | \$18          | \$23                |
| 318                       | Irradiation apparatus manufacturing                                      | \$8         | 0.0        | \$1           | \$2                 |
| 319                       | Watch, clock, and other measuring and controlling device manufacturing   | \$1,062     | 0.0        | \$255         | \$332               |
| 320                       | Blank magnetic and optical recording media manufacturing                 | \$226,567   | 0.1        | \$9,897       | \$23,651            |
| 321                       | Software and other prerecorded and record reproducing                    | \$18,459    | 0.1        | \$3,167       | \$4,056             |
| 322                       | Electric lamp bulb and part manufacturing                                | \$25,481    | 0.1        | \$7,538       | \$11,456            |
| 323                       | Lighting fixture manufacturing                                           | \$7,303     | 0.0        | \$1,831       | \$2,337             |
| 324                       | Small electrical appliance manufacturing                                 | \$8,210     | 0.0        | \$1,123       | \$2,308             |
| 325                       | Household cooking appliance manufacturing                                | \$5,961     | 0.0        | \$655         | \$1,661             |
| 326                       | Household refrigerator and home freezer manufacturing                    | \$6,675     | 0.0        | \$846         | \$1,991             |
| 327                       | Household laundry equipment manufacturing                                | \$12,670    | 0.0        | \$1,721       | \$2,989             |
| 328                       | Other major household appliance manufacturing                            | \$4,857     | 0.0        | \$589         | \$1,627             |
| 329                       | Power, distribution, and specialty transformer manufacturing             | \$3,364     | 0.0        | \$844         | \$1,162             |
| 330                       | Motor and generator manufacturing                                        | \$1,173     | 0.0        | \$228         | \$392               |
| 331                       | Switchgear and switchboard apparatus manufacturing                       | \$1,642     | 0.0        | \$364         | \$633               |
| 332                       | Relay and industrial control manufacturing                               | \$110       | 0.0        | \$25          | \$34                |
| 333                       | Storage battery manufacturing                                            | \$14,663    | 0.0        | \$3,688       | \$5,729             |
| 334                       | Primary battery manufacturing                                            | \$3,475     | 0.0        | \$861         | \$1,513             |
| 335                       | Fiber optic cable manufacturing                                          | \$567       | 0.0        | \$92          | \$129               |
| 336                       | Other communication and energy wire manufacturing                        | \$157       | 0.0        | \$18          | \$32                |
| 337                       | Wiring device manufacturing                                              | \$6,411     | 0.0        | \$1,296       | \$2,482             |
| 338                       | Carbon and graphite product manufacturing                                | \$5,024     | 0.0        | \$1,170       | \$1,667             |
| 339                       | All other miscellaneous electrical equipment and component manufacturing | \$124       | 0.0        | \$35          | \$40                |
| 340                       | Automobile manufacturing                                                 | \$583,634   | 0.4        | \$50,373      | \$135,197           |
| 341                       | Light truck and utility vehicle manufacturing                            | \$221,928   | 0.1        | \$13,414      | \$34,954            |
| 342                       | Heavy duty truck manufacturing                                           | \$86        | 0.0        | \$15          | \$22                |
| 343                       | Motor vehicle body manufacturing                                         | \$6,630     | 0.0        | \$1,290       | \$1,564             |
| 344                       | Truck trailer manufacturing                                              | \$650       | 0.0        | \$128         | \$159               |
| 345                       | Motor home manufacturing                                                 | \$86,236    | 0.2        | \$11,154      | \$15,450            |
| 346                       | Travel trailer and camper manufacturing                                  | \$22,744    | 0.1        | \$2,487       | \$2,903             |
| 347                       | Motor vehicle gasoline engine and engine parts manufacturing             | \$88,072    | 0.1        | \$10,214      | \$14,102            |
| 348                       | Motor vehicle electrical and electronic equipment manufacturing          | \$930,801   | 1.8        | \$145,205     | \$178,820           |
| 349                       | Motor vehicle transmission and power train parts manufacturing           | \$65,244    | 0.1        | \$7,562       | \$10,125            |
| 350                       | Motor vehicle seating and interior trim manufacturing                    | \$40,749    | 0.1        | \$5,953       | \$6,846             |
| 351                       | Motor vehicle metal stamping                                             | \$51,545    | 0.1        | \$9,958       | \$11,871            |
| 352                       | Other motor vehicle parts manufacturing                                  | \$1,253,352 | 2.4        | \$191,786     | \$247,399           |

**Appendix Table A (Continues on Next Page)**

**Appendix Table A (CONTINUED)**

| Industry Number and Title |                                                                                               | Output      | Employment | Earned Income | Gross State Product |
|---------------------------|-----------------------------------------------------------------------------------------------|-------------|------------|---------------|---------------------|
| 353                       | Motor vehicle steering, suspension component (except spring), and brake systems manufacturing | \$663,636   | 1.2        | \$92,286      | \$124,143           |
| 354                       | Aircraft manufacturing                                                                        | \$4         | 0.0        | \$1           | \$1                 |
| 355                       | Aircraft engine and engine parts manufacturing                                                | \$67        | 0.0        | \$10          | \$21                |
| 356                       | Other aircraft parts and auxiliary equipment manufacturing                                    | \$433       | 0.0        | \$157         | \$211               |
| 357                       | Guided missile and space vehicle manufacturing                                                | \$33        | 0.0        | \$7           | \$12                |
| 359                       | Railroad rolling stock manufacturing                                                          | \$85        | 0.0        | \$25          | \$28                |
| 360                       | Ship building and repairing                                                                   | \$862       | 0.0        | \$283         | \$387               |
| 361                       | Boat building                                                                                 | \$100,467   | 0.3        | \$23,587      | \$34,467            |
| 362                       | Motorcycle, bicycle, and parts manufacturing                                                  | \$3,574     | 0.0        | \$308         | \$1,404             |
| 363                       | Military armored vehicle, tank, and tank component manufacturing                              | \$144       | 0.0        | \$22          | \$57                |
| 364                       | All other transportation equipment manufacturing                                              | \$2,633     | 0.0        | \$257         | \$552               |
| 365                       | Wood kitchen cabinet and countertop manufacturing                                             | \$10,401    | 0.1        | \$3,629       | \$3,745             |
| 366                       | Upholstered household furniture manufacturing                                                 | \$24,365    | 0.1        | \$6,729       | \$6,885             |
| 367                       | Nonupholstered wood household furniture manufacturing                                         | \$2,880     | 0.0        | \$882         | \$903               |
| 368                       | Other household nonupholstered furniture manufacturing                                        | \$1,952     | 0.0        | \$325         | \$346               |
| 369                       | Institutional furniture manufacturing                                                         | \$271       | 0.0        | \$75          | \$76                |
| 370                       | Wood office furniture manufacturing                                                           | \$9         | 0.0        | \$2           | \$2                 |
| 371                       | Custom architectural woodwork and millwork                                                    | \$533       | 0.0        | \$181         | \$170               |
| 372                       | Office furniture, except wood, manufacturing                                                  | \$228       | 0.0        | \$41          | \$44                |
| 373                       | Showcase, partition, shelving, and locker manufacturing                                       | \$3,007     | 0.0        | \$885         | \$921               |
| 374                       | Mattress manufacturing                                                                        | \$7,612     | 0.0        | \$1,103       | \$1,189             |
| 375                       | Blind and shade manufacturing                                                                 | \$656       | 0.0        | \$156         | \$156               |
| 376                       | Surgical and medical instrument manufacturing                                                 | \$9,167     | 0.0        | \$3,561       | \$5,460             |
| 377                       | Surgical appliance and supplies manufacturing                                                 | \$71,458    | 0.1        | \$19,615      | \$36,017            |
| 378                       | Dental equipment and supplies manufacturing                                                   | \$176       | 0.0        | \$43          | \$74                |
| 379                       | Ophthalmic goods manufacturing                                                                | \$710       | 0.0        | \$171         | \$348               |
| 380                       | Dental laboratories                                                                           | \$2,748     | 0.0        | \$1,332       | \$1,533             |
| 381                       | Jewelry and silverware manufacturing                                                          | \$30,354    | 0.1        | \$5,595       | \$10,775            |
| 382                       | Sporting and athletic goods manufacturing                                                     | \$4,148     | 0.0        | \$1,180       | \$1,736             |
| 383                       | Doll, toy, and game manufacturing                                                             | \$15,873    | 0.0        | \$3,156       | \$6,783             |
| 384                       | Office supplies (except paper) manufacturing                                                  | \$59,537    | 0.2        | \$12,578      | \$19,884            |
| 385                       | Sign manufacturing                                                                            | \$123,685   | 0.7        | \$51,529      | \$49,887            |
| 386                       | Gasket, packing, and sealing device manufacturing                                             | \$33,613    | 0.1        | \$12,603      | \$14,503            |
| 387                       | Musical instrument manufacturing                                                              | \$8,020     | 0.0        | \$3,156       | \$3,594             |
| 388                       | Fasteners, buttons, needles, and pins manufacturing                                           | \$871       | 0.0        | \$272         | \$333               |
| 389                       | Broom, brush, and mop manufacturing                                                           | \$553,471   | 1.8        | \$127,223     | \$217,433           |
| 390                       | Burial casket manufacturing                                                                   | \$3,102     | 0.0        | \$888         | \$1,220             |
| 391                       | All other miscellaneous manufacturing                                                         | \$32,504    | 0.1        | \$9,317       | \$12,529            |
| 392                       | Wholesale - Motor vehicle and motor vehicle parts and supplies                                | \$2,485,288 | 5.5        | \$508,895     | \$1,139,448         |
| 393                       | Wholesale - Professional and commercial equipment and supplies                                | \$4,359,402 | 12.1       | \$1,536,441   | \$2,467,340         |
| 394                       | Wholesale - Household appliances and electrical and electronic goods                          | \$2,186,536 | 3.5        | \$402,330     | \$1,011,412         |
| 395                       | Wholesale - Machinery, equipment, and supplies                                                | \$1,931,097 | 5.4        | \$552,439     | \$1,075,581         |
| 396                       | Wholesale - Other durable goods merchant wholesalers                                          | \$4,602,149 | 12.7       | \$1,198,416   | \$2,264,685         |
| 397                       | Wholesale - Drugs and druggists' sundries                                                     | \$2,534,412 | 3.0        | \$439,994     | \$1,101,268         |

**Appendix Table A (Continues on Next Page)**

**Appendix Table A (CONTINUED)**

|     | Industry Number and Title                                                       | Output       | Employment | Earned Income | Gross State Product |
|-----|---------------------------------------------------------------------------------|--------------|------------|---------------|---------------------|
| 398 | Wholesale - Grocery and related product wholesalers                             | \$1,640,154  | 6.1        | \$536,869     | \$832,686           |
| 399 | Wholesale - Petroleum and petroleum products                                    | \$3,070,594  | 1.3        | \$138,934     | \$2,658,086         |
| 400 | Wholesale - Other nondurable goods merchant wholesalers                         | \$6,939,183  | 16.8       | \$1,504,493   | \$3,714,099         |
| 401 | Wholesale - Wholesale electronic markets and agents and brokers                 | \$768,538    | 4.3        | \$570,374     | \$651,763           |
| 402 | Retail - Motor vehicle and parts dealers                                        | \$5,260,693  | 30.6       | \$2,571,801   | \$3,891,820         |
| 403 | Retail - Furniture and home furnishings stores                                  | \$1,409,541  | 10.0       | \$661,367     | \$923,163           |
| 404 | Retail - Electronics and appliance stores                                       | \$916,072    | 8.1        | \$595,032     | \$596,505           |
| 405 | Retail - Building material and garden equipment and supplies stores             | \$3,773,831  | 23.4       | \$1,329,430   | \$2,769,290         |
| 406 | Retail - Food and beverage stores                                               | \$3,831,359  | 38.9       | \$1,660,389   | \$2,439,189         |
| 407 | Retail - Health and personal care stores                                        | \$1,834,289  | 18.2       | \$935,226     | \$1,228,854         |
| 408 | Retail - Gasoline stores                                                        | \$2,081,941  | 10.0       | \$696,990     | \$1,293,326         |
| 409 | Retail - Clothing and clothing accessories stores                               | \$2,227,560  | 17.5       | \$599,197     | \$1,107,837         |
| 410 | Retail - Sporting goods, hobby, musical instrument and book stores              | \$1,218,779  | 14.5       | \$546,302     | \$778,479           |
| 411 | Retail - General merchandise stores                                             | \$4,826,073  | 44.3       | \$1,678,432   | \$3,019,959         |
| 412 | Retail - Miscellaneous store retailers                                          | \$1,879,446  | 31.6       | \$984,904     | \$1,161,103         |
| 413 | Retail - Nonstore retailers                                                     | \$8,977,859  | 37.3       | \$1,062,225   | \$5,648,762         |
| 414 | Air transportation                                                              | \$1,607,122  | 3.0        | \$293,847     | \$832,073           |
| 415 | Rail transportation                                                             | \$860,843    | 1.4        | \$179,117     | \$413,364           |
| 416 | Water transportation                                                            | \$565,897    | 0.7        | \$83,545      | \$168,343           |
| 417 | Truck transportation                                                            | \$7,495,011  | 31.1       | \$2,481,490   | \$3,703,995         |
| 418 | Transit and ground passenger transportation                                     | \$1,014,233  | 24.8       | \$382,744     | \$620,635           |
| 419 | Pipeline transportation                                                         | \$198,494    | 0.2        | \$103,659     | \$132,125           |
| 420 | Scenic and sightseeing transportation and support activities for transportation | \$1,229,093  | 11.8       | \$999,798     | \$759,002           |
| 421 | Couriers and messengers                                                         | \$2,083,394  | 18.3       | \$1,072,438   | \$1,862,388         |
| 422 | Warehousing and storage                                                         | \$3,618,534  | 32.3       | \$1,870,907   | \$1,985,932         |
| 423 | Newspaper publishers                                                            | \$327,618    | 2.4        | \$137,058     | \$182,577           |
| 424 | Periodical publishers                                                           | \$290,450    | 1.2        | \$120,614     | \$150,669           |
| 425 | Book publishers                                                                 | \$243,394    | 0.5        | \$48,818      | \$93,067            |
| 426 | Directory, mailing list, and other publishers                                   | \$124,837    | 0.3        | \$33,723      | \$56,772            |
| 428 | Software publishers                                                             | \$3,528,840  | 11.9       | \$1,531,948   | \$2,189,151         |
| 429 | Motion picture and video industries                                             | \$1,579,053  | 6.5        | \$419,002     | \$507,277           |
| 430 | Sound recording industries                                                      | \$501,531    | 0.7        | \$77,772      | \$248,487           |
| 431 | Radio and television broadcasting                                               | \$5,005,097  | 8.5        | \$1,317,949   | \$1,826,759         |
| 432 | Cable and other subscription programming                                        | \$3,903,429  | 1.7        | \$321,886     | \$1,515,168         |
| 433 | Wired telecommunications carriers                                               | \$4,622,813  | 11.3       | \$893,327     | \$2,143,445         |
| 434 | Wireless telecommunications carriers (except satellite)                         | \$5,959,530  | 3.0        | \$207,530     | \$2,025,800         |
| 435 | Satellite, telecommunications resellers, and all other telecommunications       | \$414,185    | 1.2        | \$108,002     | \$142,714           |
| 436 | Data processing, hosting, and related services                                  | \$10,003,358 | 13.9       | \$1,908,871   | \$3,970,517         |
| 437 | News syndicates, libraries, archives and all other information services         | \$226,249    | 0.7        | \$68,350      | \$100,415           |
| 438 | Internet publishing and broadcasting and web search portals                     | \$2,747,748  | 2.3        | \$172,422     | \$447,154           |
| 439 | Nondepository credit intermediation and related activities                      | \$3,054,889  | 17.3       | \$1,740,423   | \$1,872,014         |
| 440 | Securities and commodity contracts intermediation and brokerage                 | \$2,490,321  | 23.4       | \$1,208,915   | \$1,003,292         |
| 441 | Monetary authorities and depository credit intermediation                       | \$12,347,217 | 30.1       | \$3,005,145   | \$7,545,353         |

**Appendix Table A (Continues on Next Page)**

**Appendix Table A (CONTINUED)**

| Industry Number and Title |                                                                                                 | Output        | Employment | Earned Income | Gross State Product |
|---------------------------|-------------------------------------------------------------------------------------------------|---------------|------------|---------------|---------------------|
| 442                       | Other financial investment activities                                                           | \$3,882,160   | 22.7       | \$1,121,361   | \$1,307,188         |
| 443                       | Direct life insurance carriers                                                                  | \$1,094,034   | 3.7        | \$359,336     | \$714,744           |
| 444                       | Insurance carriers, except direct life                                                          | \$10,123,366  | 16.0       | \$1,422,423   | \$4,567,464         |
| 445                       | Insurance agencies, brokerages, and related activities                                          | \$6,284,964   | 19.0       | \$1,726,359   | \$2,651,931         |
| 446                       | Funds, trusts, and other financial vehicles                                                     | \$2,016,709   | 8.7        | \$285,230     | \$513,628           |
| 447                       | Other real estate                                                                               | \$27,759,131  | 126.7      | \$4,288,358   | \$11,897,558        |
| 448                       | Tenant-occupied housing                                                                         | \$4,432,713   | 13.2       | \$461,323     | \$4,100,180         |
| 449                       | Owner-occupied dwellings                                                                        | \$26,826,756  | 0.0        | \$0           | \$22,229,028        |
| 450                       | Automotive equipment rental and leasing                                                         | \$1,706,114   | 6.3        | \$390,320     | \$1,248,391         |
| 451                       | General and consumer goods rental except video tapes and discs                                  | \$1,250,520   | 8.2        | \$465,349     | \$805,383           |
| 452                       | Video tape and disc rental                                                                      | \$211,988     | 1.2        | \$78,204      | \$134,712           |
| 453                       | Commercial and industrial machinery and equipment rental and leasing                            | \$1,774,631   | 6.2        | \$487,813     | \$1,288,362         |
| 454                       | Lessors of nonfinancial intangible assets                                                       | \$1,256,905   | 0.7        | \$80,026      | \$1,170,727         |
| 455                       | Legal services                                                                                  | \$5,287,053   | 22.2       | \$2,000,027   | \$3,832,510         |
| 456                       | Accounting, tax preparation, bookkeeping, and payroll services                                  | \$8,407,225   | 43.1       | \$4,518,967   | \$5,764,868         |
| 457                       | Architectural, engineering, and related services                                                | \$2,865,182   | 15.0       | \$1,484,734   | \$1,636,273         |
| 458                       | Specialized design services                                                                     | \$366,066     | 1.6        | \$112,771     | \$199,348           |
| 459                       | Custom computer programming services                                                            | \$1,028,323   | 6.8        | \$683,612     | \$733,348           |
| 460                       | Computer systems design services                                                                | \$1,757,419   | 13.7       | \$1,436,763   | \$1,348,362         |
| 461                       | Other computer related services, including facilities management                                | \$695,139     | 2.3        | \$259,208     | \$405,344           |
| 462                       | Management consulting services                                                                  | \$9,878,068   | 63.3       | \$5,659,582   | \$5,896,774         |
| 463                       | Environmental and other technical consulting services                                           | \$1,815,501   | 10.7       | \$1,021,490   | \$1,132,956         |
| 464                       | Scientific research and development services                                                    | \$1,174,167   | 5.0        | \$461,792     | \$571,550           |
| 465                       | Advertising, public relations, and related services                                             | \$6,419,850   | 22.6       | \$1,996,740   | \$3,084,245         |
| 466                       | Photographic services                                                                           | \$578,703     | 2.3        | \$93,293      | \$249,626           |
| 467                       | Veterinary services                                                                             | \$291,349     | 3.0        | \$162,288     | \$184,781           |
| 468                       | Marketing research and all other miscellaneous professional, scientific, and technical services | \$1,164,555   | 3.8        | \$308,280     | \$530,634           |
| 469                       | Management of companies and enterprises                                                         | \$22,861,035  | 98.4       | \$15,792,342  | \$13,649,725        |
| 470                       | Office administrative services                                                                  | \$3,734,159   | 44.0       | \$3,479,871   | \$1,519,356         |
| 471                       | Facilities support services                                                                     | \$1,546,435   | 8.9        | \$448,403     | \$603,030           |
| 472                       | Employment services                                                                             | \$34,407,032  | 313.6      | \$14,118,240  | \$19,303,485        |
| 473                       | Business support services                                                                       | \$2,685,362   | 33.5       | \$1,622,656   | \$1,430,976         |
| 474                       | Travel arrangement and reservation services                                                     | \$789,979     | 2.5        | \$161,873     | \$257,453           |
| 475                       | Investigation and security services                                                             | \$2,811,428   | 43.8       | \$1,845,645   | \$1,892,454         |
| 476                       | Services to buildings                                                                           | \$531,745,440 | 4,755.4    | \$180,329,431 | \$253,066,261       |
| 477                       | Landscape and horticultural services                                                            | \$3,114,964   | 28.8       | \$1,318,752   | \$1,631,171         |
| 478                       | Other support services                                                                          | \$2,264,602   | 14.1       | \$927,053     | \$1,179,578         |
| 479                       | Waste management and remediation services                                                       | \$3,941,280   | 14.5       | \$1,232,906   | \$1,860,802         |
| 480                       | Elementary and secondary schools                                                                | \$602,606     | 11.1       | \$592,445     | \$500,257           |
| 481                       | Junior colleges, colleges, universities, and professional schools                               | \$1,580,247   | 18.9       | \$884,577     | \$1,141,999         |
| 482                       | Other educational services                                                                      | \$2,974,812   | 29.0       | \$1,399,122   | \$1,544,065         |
| 483                       | Offices of physicians                                                                           | \$9,525,521   | 55.0       | \$6,761,612   | \$6,806,930         |
| 484                       | Offices of dentists                                                                             | \$1,639,315   | 13.8       | \$1,132,499   | \$1,219,337         |

**Appendix Table A (Continues on Next Page)**

**Appendix Table A (CONTINUED)**

| Industry Number and Title |                                                                                          | Output       | Employment | Earned Income | Gross State Product |
|---------------------------|------------------------------------------------------------------------------------------|--------------|------------|---------------|---------------------|
| 485                       | Offices of other health practitioners                                                    | \$1,627,656  | 14.7       | \$1,048,665   | \$1,261,458         |
| 486                       | Outpatient care centers                                                                  | \$1,908,960  | 14.9       | \$1,275,808   | \$1,251,685         |
| 487                       | Medical and diagnostic laboratories                                                      | \$925,024    | 5.4        | \$524,915     | \$651,472           |
| 488                       | Home health care services                                                                | \$1,280,357  | 14.8       | \$1,068,333   | \$1,058,870         |
| 489                       | Other ambulatory health care services                                                    | \$609,789    | 4.4        | \$392,030     | \$420,035           |
| 490                       | Hospitals                                                                                | \$13,369,263 | 53.1       | \$8,026,207   | \$8,412,923         |
| 491                       | Nursing and community care facilities                                                    | \$1,770,730  | 18.8       | \$1,007,540   | \$1,113,254         |
| 492                       | Residential intellectual disability, mental health, substance abuse and other facilities | \$615,222    | 7.3        | \$401,237     | \$420,542           |
| 493                       | Individual and family services                                                           | \$1,158,742  | 27.9       | \$951,456     | \$811,905           |
| 494                       | Child day care services                                                                  | \$767,045    | 12.9       | \$434,599     | \$556,370           |
| 495                       | Community food, housing, and other relief services, including rehabilitation services    | \$512,023    | 6.0        | \$251,966     | \$239,951           |
| 496                       | Performing arts companies                                                                | \$720,033    | 4.1        | \$347,571     | \$528,265           |
| 497                       | Commercial Sports Except Racing                                                          | \$901,434    | 6.2        | \$792,250     | \$748,209           |
| 498                       | Racing and Track Operation                                                               | \$68,672     | 0.4        | \$29,722      | \$45,708            |
| 499                       | Independent artists, writers, and performers                                             | \$1,123,241  | 4.5        | \$380,820     | \$917,970           |
| 500                       | Promoters of performing arts and sports and agents for public figures                    | \$1,016,556  | 4.1        | \$336,065     | \$670,989           |
| 501                       | Museums, historical sites, zoos, and parks                                               | \$143,947    | 1.4        | \$65,389      | \$79,012            |
| 502                       | Amusement parks and arcades                                                              | \$77,587     | 0.8        | \$23,724      | \$67,091            |
| 503                       | Gambling industries (except casino hotels)                                               | \$903,628    | 4.5        | \$255,591     | \$702,720           |
| 504                       | Other amusement and recreation industries                                                | \$519,625    | 10.0       | \$276,363     | \$379,307           |
| 505                       | Fitness and recreational sports centers                                                  | \$338,875    | 6.3        | \$141,840     | \$216,999           |
| 506                       | Bowling centers                                                                          | \$70,171     | 0.9        | \$26,574      | \$46,376            |
| 507                       | Hotels and motels, including casino hotels                                               | \$155,220    | 1.1        | \$45,828      | \$109,527           |
| 508                       | Other accommodations                                                                     | \$552,757    | 7.1        | \$345,048     | \$426,630           |
| 509                       | Full-service restaurants                                                                 | \$10,091,271 | 100.7      | \$3,775,365   | \$5,591,606         |
| 510                       | Limited-service restaurants                                                              | \$8,813,088  | 82.9       | \$2,597,434   | \$4,047,023         |
| 511                       | All other food and drinking places                                                       | \$3,689,826  | 41.1       | \$1,572,661   | \$2,418,740         |
| 512                       | Automotive repair and maintenance, except car washes                                     | \$5,985,185  | 49.9       | \$3,495,008   | \$4,392,752         |
| 513                       | Car washes                                                                               | \$4,473,355  | 28.3       | \$2,101,601   | \$3,185,493         |
| 514                       | Electronic and precision equipment repair and maintenance                                | \$2,897,531  | 18.7       | \$1,398,715   | \$1,769,783         |
| 515                       | Commercial and industrial machinery and equipment repair and maintenance                 | \$7,037,509  | 48.7       | \$4,015,445   | \$4,705,159         |
| 516                       | Personal and household goods repair and maintenance                                      | \$2,732,165  | 16.7       | \$963,154     | \$2,033,941         |
| 517                       | Personal care services                                                                   | \$577,862    | 19.2       | \$595,853     | \$486,479           |
| 518                       | Death care services                                                                      | \$160,291    | 4.1        | \$136,820     | \$119,414           |
| 519                       | Dry-cleaning and laundry services                                                        | \$595,627    | 17.0       | \$562,430     | \$478,798           |
| 520                       | Other personal services                                                                  | \$885,527    | 14.5       | \$475,290     | \$624,580           |
| 521                       | Religious organizations                                                                  | \$1,401,945  | 13.8       | \$906,032     | \$574,872           |
| 522                       | Grantmaking, giving, and social advocacy organizations                                   | \$1,072,041  | 3.0        | \$211,266     | \$806,152           |
| 523                       | Business and professional associations                                                   | \$829,144    | 3.2        | \$260,312     | \$520,520           |
| 524                       | Labor and civic organizations                                                            | \$1,045,999  | 5.9        | \$170,926     | \$628,338           |
| 525                       | Private households                                                                       | \$252,874    | 13.2       | \$252,874     | \$252,874           |
| 526                       | Postal service                                                                           | \$858,422    | 8.5        | \$852,687     | \$858,103           |

**Appendix Table A (Continues on Next Page)**

**Appendix Table A (CONTINUED)**

| Industry Number and Title |                                      | Output          | Employment | Earned Income | Gross State Product |
|---------------------------|--------------------------------------|-----------------|------------|---------------|---------------------|
| 527                       | Federal electric utilities           | \$3,402,337     | 2.5        | \$520,590     | \$1,415,586         |
| 528                       | Other federal government enterprises | \$69,236        | 0.2        | \$20,353      | \$44,488            |
| 531                       | Other state government enterprises   | \$35,030        | 0.1        | \$9,833       | \$14,332            |
| 532                       | Local government passenger transit   | \$11,053        | 0.3        | \$15,625      | \$1,991             |
| 533                       | Local government electric utilities  | \$2,562,832     | 3.7        | \$444,060     | \$1,139,140         |
| 534                       | Other local government enterprises   | \$3,962,925     | 9.4        | \$882,783     | \$1,483,977         |
|                           |                                      |                 |            |               |                     |
|                           | Total                                | \$1,029,122,359 | 7,357.9    | \$354,686,332 | \$534,510,745       |



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